

ERD Environmental Aspects Analysis						
Environmental Aspect	Activity	Legal Reg	Significance Criteria*		Impact Level	Significant** (Yes/No)
			Likelihood/Risk	Magnitude/Consequence		
<i>Paper Consumption</i>	Disposal of paper from copying and printing	No	H	M	HM	Yes
	Purchasing paper for copying and printing	No	H	H	HH	Yes
<i>Chemical consumption</i>	Material storage - spills	Yes	L	M	LM	Yes
	Laboratory studies	No	H	L	HL	Yes
	Field Operations	No	L	L	LL	No
	Landscaping	No	H	M	HM	No
<i>Water Consumption</i>	Facility water supply and landscape irrigation	No	H	H	HH	Yes
<i>Air emissions (stack)</i>	Facility operations - boilers, generator, hoods	Yes	H	L	HL	Yes
	Wet chemistry	Yes	H	L	HL	No
<i>Energy Consumption (electricity, natural gas, diesel, gasoline)</i>	Facility operations (climate control-air-heat, lighting, maintenance)	No	H	H	HH	Yes
	Computer operations	No	H	H	HH	Yes
	Instrumentation - including computing cluster and chemistry equipment	No	H	H	HH	Yes
	Field operations (vehicle travel-use-maintenance)	No	H	L	HL	No

	Materials input - shipping and fuel costs	No	H	L	HL	No
	Materials output - shipping and fuel costs	No	H	L	HL	No
	Travel (GOV, airplane) fuel use	No	H	L	HL	No
<i>Purchasing</i>	Purchasing furniture, computers, etc.	No	H	H	HH	Yes
<i>ERD Eco-footprint</i>	Overall operations and land use	No	H	H	HH	Yes

\*High (H), Medium (M), Low (L)

\*\*HH, HM, MH - High Impact; HL, MM, LH = Medium Impact; LL, ML, LM - Low Impact. Those aspects rated HH were determined to warrant targets and objectives. Those having other ratings, but rated “yes” were selected based on importance to the Team.

SEA table modifications are developed by the EMS Team.